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DATE MAILED: 09/22/2004

APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,697	10/625,697 07/24/2003		Kazuhide Kawai	2018-747	9432
23117	7590	09/22/2004		EXAMINER	
	VANDEI	RHYE, PC	nguyen, Tuyen T		
8TH FLOOR			ART UNIT	PAPER NUMBER	
ARLINGT	ON, VA 2	22201-4714	2832		

Please find below and/or attached an Office communication concerning this application or proceeding.

			A				
		Application No.	Applicant(s)				
	Office Antique Commence	10/625,697	KAWAI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		TUYEN T NGUYEN	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>07 Se</u>	eptember 2004.					
·	This action is FINAL . 2b)⊠ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)□	 Claim(s) 7-15 and 45-50 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 7-13 and 45-50 is/are allowed. Claim(s) 14 and 15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 						
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/023,613. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) 🛛 Infort	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 02/11/2004.		te atent Application (PTO-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oosuka et al. [US 5,778,863] in view of Burson [US 3,949,338].

Oosuka et al. discloses an ignition coil [figure 1] comprising:

- a rod-shaped core [502];
- a secondary spool [510] having a secondary coil [512] wound thereon;
- a primary spool [514] having a primary coil [516] wound thereon;
- an outer core [508] disposed around on the primary spool and around the primary coil.

wherein the primary spool having a flange formed at a longitudinal end thereof and extending radially to cover a longitudinal end portion of the outer core.

Oosuka et al. discloses the instant claimed invention except for a resin insulator filled around the rod-shaped core.

Burson discloses an ignition coil having a core [48] with resin insulator [56] filled around the core.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to fill resin insulator around the core of Oosuka et al., as suggested by Burson, for the purpose of protecting the core.

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Allowable Subject Matter

Claims 7-13 and 45-50 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art of record do not teach or suggest, in the claimed combination thereof, an ignition coil having an angled/elastic member covering the inner circumference corner of a longitudinal end portion of the outer core.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. 'Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- McDougal [US 4,514,712] and Oosuka et al. [US 5,720,264].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TH

Tayla T. Nguyla